

EPA

POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT  
PART 1 - SITE INFORMATION AND ASSESSMENT

SEMS  
963087  
I. IDENTIFICATION  
01 STATE 02 SITE NO.  
UTD070546445



004853

## II. SITE NAME AND LOCATION

01 SITE NAME (Logo, common or descriptive name of site)

IRECO Chemical, Site A

02 STREET, ROUTE NO. OR SPECIFICATION LOCATION IDENTIFIER 03 CITY  
Pelican Point Lehi04 STATE 05 ZIP CODE  
Utah 8404306 COUNTY  
Utah07 COUNTY CODE  
04908 CONG DIST.  
0109 COORDINATES LATITUDE  
40 15 05.2LONGITUDE  
111 53 20.0

10 DIRECTIONS TO SITE (Starting from nearest public road)

Approximately 10 miles south on Utah Highway 68 from the intersection of Utah 68 and Utah 73

## III. RESPONSIBLE PARTIES

01 OWNER (if known)

IRECO Incorporated\*

02 STREET (Business, mailing, residential)  
Seventh Floor, Kennecott Bldg.

03 CITY

Salt Lake City

04 STATE  
Utah05 ZIP CODE 06 TELEPHONE NUMBER  
84133 (801) 364-4800

07 OPERATOR (if known and different from owner)

08 STREET (Business, mailing, residential) 09 CITY 10 STATE

11 ZIP CODE 12 TELEPHONE NUMBER

13 TYPE OF OWNERSHIP (Check one)

A. PRIVATE X B. FEDERAL:  
D. COUNTY E. MUNICIPAL

C. STATE

G. UNKNOWN

F. OTHER: (Specify)

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

A. RCRA 3001 DATE RECEIVED \_\_\_/\_\_\_/\_\_\_

B. UNCONTROLLED WASTE SITE (CERCLA 103c) DATE RECEIVED \_\_\_/\_\_\_/\_\_\_

C. NONE

## IV CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION BY (Check all that apply)

YES DATE \_\_\_/\_\_\_/\_\_\_  
NO X

A. EPA B. EPA CONTRACTOR

C. STATE D. OTHER CONTRACTOR

E. LOCAL HEALTH OFFICIAL

F. OTHER: (Specify)

CONTRACTOR NAME(S):

02 SITE STATUS (check one)

A. ACTIVE X

B. INACTIVE

C. UNKNOWN

03 YEARS OF OPERATION

1960

BEGINNING YEAR

ENDING YEAR

UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT KNOWN OR ALLEGED

Pink/red water in 3 evaporation ponds. And a burn pit. TNT, soluble organic solvents, insoluble carbonaceous solvents, alumina, and metal oxides.

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05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

The TNT Pink/red water sludge when dry may posses ignitable or reactive characteristics. There is also a potential for contaminates to migrate to Utah Lake.

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EPA FORM 2070-12(7-81)V PRIORITY  
ASSESSMENT

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01 PRIORITY FOR INSPECTION (Check one, if high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)

- |   |  |
|---|--|
| A. HIGH<br>(inspection required promptly)     | B. MEDIUM<br>(inspection required)                                       |
| C. LOW X<br>(inspect on time available basis) | D. NONE<br>(No further action needed, complete current disposition form) |
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VI INFORMATION AVAILABLE FROM

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01 CONTACT	02 OF (Agency, Organization)	03 TELEPHONE NUMBER
Connie S. Nakahara	USHD BSHWM	(801) 533-4145

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04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.
Dale D. Parker Ph.D	USHD	BSHWM	(801) 533-4145

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08 DATE

03/14/85      \*The site is located on U.S. Bureau of Land Management Property.

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EPA FORM 2070-12(7-81)



POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT  
PART 2 - WASTE INFORMATION

I. IDENTIFICATION  
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II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)  
A. SOLID E. SLURRY  
B. POWDER, FINES F. X LIQUID  
C. SLUDGE X G. GAS  
D. OTHER \_\_\_\_\_  
(Specify)

02 WASTE QUANTITY AT SITE  
(Measures of waste quantities must be independent)  
TONS \_\_\_\_\_ Unknown  
CUBIC YARDS \_\_\_\_\_  
NO. OF DRUMS \_\_\_\_\_

03 WASTE CHARACTERISTICS (Check all that apply)  
A. TOXIC E. SOLUBLE I. HIGHLY VOLATILE  
B. CORROSIVE F. INFECTIOUS J. X EXPLOSIVE  
C. RADIOACTIVE G. FLAMMABLE K. X REACTIVE  
D. PERSISTENT H. X IGNITABLE L. INCOMPATIBLE  
M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			Pink/red water sludge
OLW	OILY WASTE			
SOL	SOLVENTS			Solvents in pink/red water
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			Metal oxides in burn pit

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/ DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	Pink/red waste water	999	SI		Unknown
Constituents:					
SLU	TNT	999	SI		7.2% Dry Basis
SLU	Soluble Organic Solvents	999	SI		10.7% Dry Basis
SLU	Insoluble Carbonaceous Solvent	999	SI		1.2% Dry Basis
Burn Pit Residue:					
MES	Alumina (solid waste)	999	SI		15 to 20%
MES	Metal Oxide (solid waste)	999	SI		10 to 20%
IOC	Nitrogen	999	SI		2 to 12%

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Utah State Bureau of the Health Dept. BSHW file.



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POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT  
PART 3 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION  
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II. HAZARDOUS CONDITIONS AND INCIDENTS

01 A. GROUNDWATER CONTAMINATION 02 OBSERVED (DATE: \_\_\_\_\_) POTENTIAL  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ ALLEGED  
04 NARRATIVE DESCRIPTION The waste water ponds are lined with Bentonite.  
Process water is obtained from 2 highly mineralized thermal springs located south of  
the site.

01 B. SURFACE WATER CONTAMINATION 02 OBSERVED (DATE: \_\_\_\_\_) X POTENTIAL  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ ALLEGED  
04 NARRATIVE DESCRIPTION The 3 waste water ponds are located on the shore of Utah  
Lake (Approximately 6 to 8 feet from the lake, width of the embankment.). Potential  
for runoff from burn pit or ponds to contaminate lake.

01 C. CONTAMINATION OF AIR 02 OBSERVED (DATE: \_\_\_\_\_) X POTENTIAL ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION  
Potential for particulates from burn pit to become airborne. (IRECO has an exclusion  
for burning from the State of Utah Department of Health, Bureau of Air Quality).

01 D. FIRE/EXPLOSIVE CONDITIONS 02 OBSERVED (DATE: \_\_\_\_\_) X POTENTIAL  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ ALLEGED  
04 NARRATIVE DESCRIPTION  
Potential for dried sludge to detonate. Ireco states they tested sludge for  
reactivity. Sludge samples did not show reactivity during June 1984 test.

01 E. DIRECT CONTACT 02 OBSERVED (DATE: \_\_\_\_\_) POTENTIAL ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION  
Site is encased with a 3 foot barbwire fence. There is a 24 hour surveillance on the  
site. Burn pit and ponds have warning signs posted.

01 F. CONTAMINATION OF SOIL 02 OBSERVED (DATE: \_\_\_\_\_) X POTENTIAL ALLEGED  
03 AREA POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION  
Soil in the burn pit has the potential for contamination by metal oxides and other  
residue. The waste ponds have a bentonite liner, however overflow may also contaminate  
soil. Soil is composed of saline silt and clays.

01 G. DRINKING WATER CONTAMINATION 02 OBSERVED (DATE: \_\_\_\_\_) POTENTIAL  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ ALLEGED  
04 NARRATIVE DESCRIPTION  
All drinking water for the site is transported bottled water. There are several  
private wells within a 10 mile radius of the site. The groundwater has a high TDS and  
is mainly used for livestock and irrigation.

01 H. WORKER EXPOSURE/INJURY 02 OBSERVED (DATE: \_\_\_\_\_) POTENTIAL ALLEGED  
03 WORKERS POTENTIALLY AFFECTED: 16 04 NARRATIVE DESCRIPTION  
Potential for dried sludge to detonate. (Ireco attempted to detonate dry samples of  
sludge by using a standard high explosive booster. All attempts failed, June 1981).

01 I. POPULATION EXPOSURE/INJURY 02 OBSERVED (DATE: \_\_\_\_\_) POTENTIAL ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION  
Sparsely populated area. Population exposure or injury may occur if water sources are  
contaminated. There may also be a danger to the population if a fire or explosion  
occurs. Population may include residents, recreational users, various employees, etc.



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I. IDENTIFICATION  
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II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 J. DAMAGE TO FLORA 02 OBSERVED (Date: \_\_\_\_\_) X POTENTIAL ALLEGED

04 NARRATIVE DESCRIPTION

Area is sparsely covered with various grass and brush such as oakbrush, bitter brush, sagebrush, wiregrass, indian rice grass, etc. There is a potential for flora damage if contamination or water sources or soil occur. Potential damage may occur. During fires or explosions.

01 K. DAMAGE TO FAUNA 02 OBSERVED (DATE: \_\_\_\_\_) X POTENTIAL ALLEGED

04 NARRATIVE DESCRIPTION

The surrounding area is used as a grazing area. Also, Utah Lake supports various water fowl and aquatic life. Therefore, damage to wildlife, livestock, water fowl, and/or aquatic life may occur if fires, explosions, water contamination, or soil contamination occur.

01 L. CONTAMINATION OF FOOD CHAIN 02 OBSERVED (DATE: \_\_\_\_\_) X POTENTIAL

04 NARRATIVE DESCRIPTION

There is a potential if contamination of wildlife, livestock, waterfowl, or aquatic life occurs.

01 M. UNSTABLE CONTAINMENT OF WASTES 02 OBSERVED (Date: \_\_\_\_\_) X POTENTIAL  
(Soils/runoff/standing liquids/leaking drums) ALLEGED

03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_

04 NARRATIVE DESCRIPTION If the sludge dries out it may become reactive.

01 N. DAMAGE TO OFFSITE PROPERTY 02 OBSERVED (DATE: \_\_\_\_\_) X POTENTIAL

04 NARRATIVE DESCRIPTION

Potential for contaminated runoff to migrate off site. Also, a potential for fires or explosions to damage property offsite.

01 O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 02 OBSERVED (DATE: \_\_\_\_\_)

04 NARRATIVE DESCRIPTION

No recorded history.

01 P. ILLEGAL/UNAUTHORIZED DUMPING 02 OBSERVED (DATE: \_\_\_\_\_) POTENTIAL

04 NARRATIVE DESCRIPTION

No recorded history.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL OR ALLEGED HAZARDS

No recorded history.

III. TOTAL POPULATION POTENTIALLY AFFECTED:

IV COMMENTS

The U.S Bureau of Land Management own the property. The BLM are concerned about any CERCLA waste on their property and the action (or implications) associated with CERCLA waste, (Mel Staheli, BLM, Salt Lake City).

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

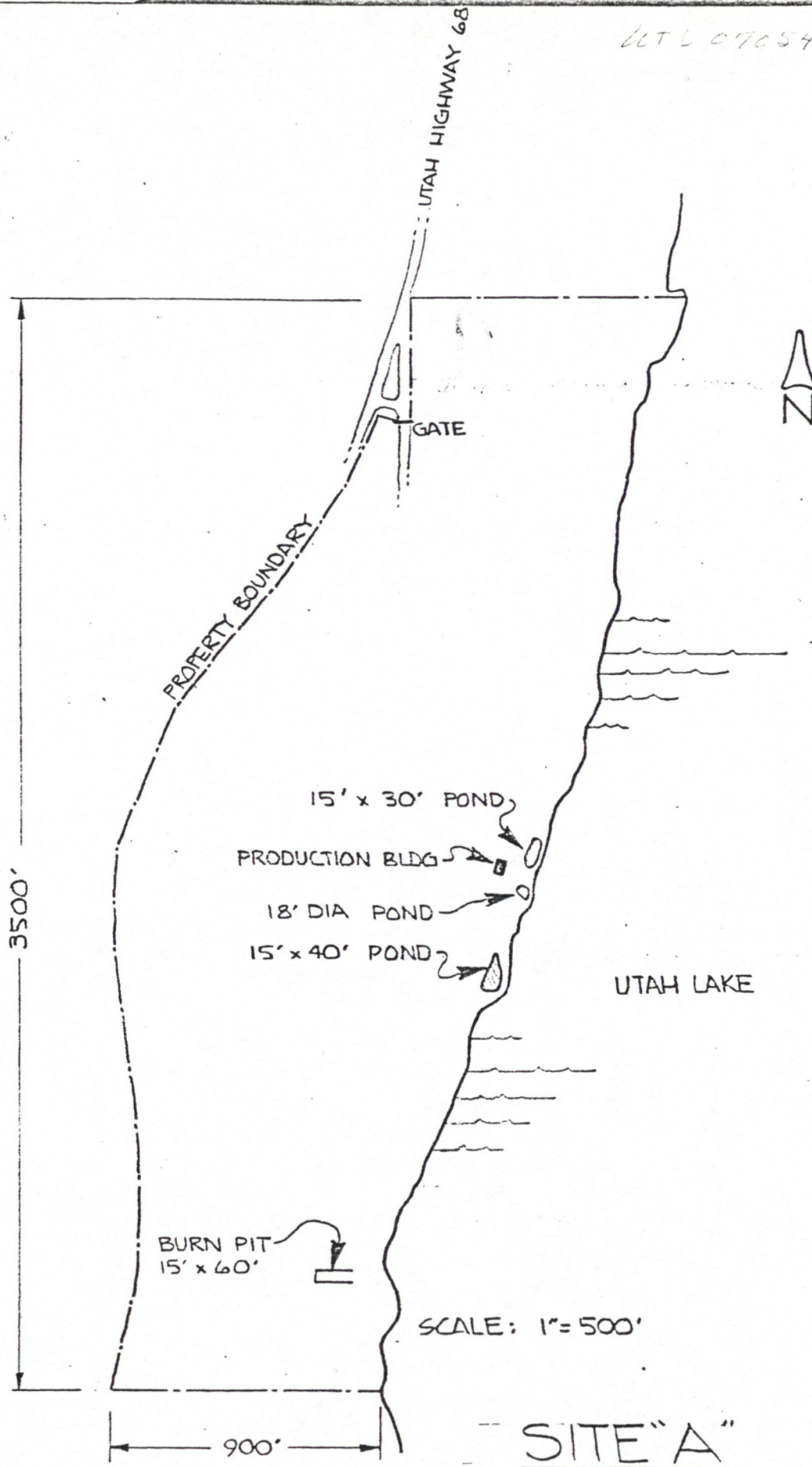
Utah State Department of Health, Bureau of Solid and Hazardous Waste Management file.

Robert Taylor, IRECO Chemical Production Manager (Phone interview, 03/12/85, 13:30).

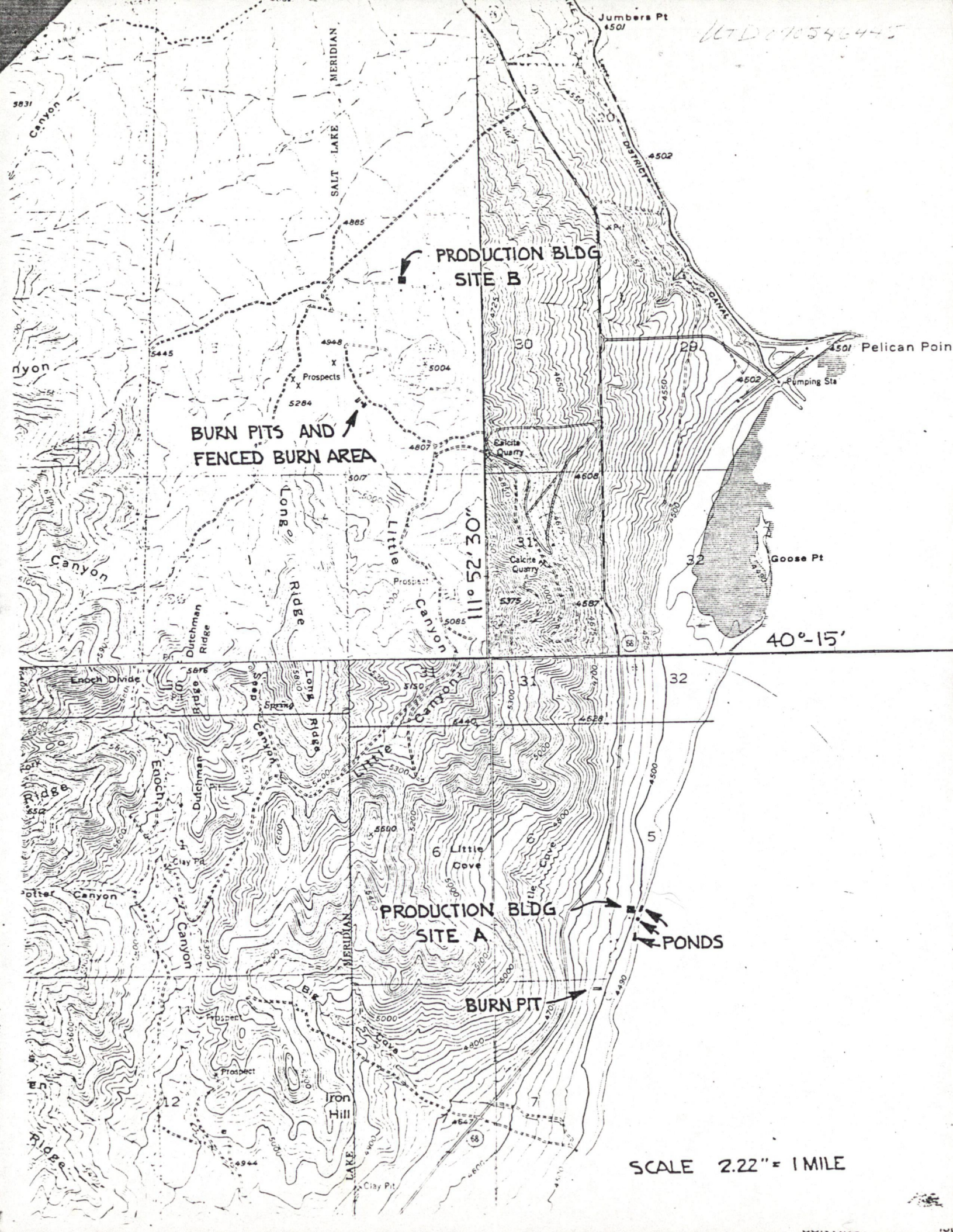
Bob Dillenbeck, Utah City/Co. Health Dept. (Phone Interview 03/07/85).

V. FACILITY DRAWING (see page 4)

UTL 070546445







167 DOK 5464-5

PRODUCTION BLDG  
SITE B

BURN PITS AND  
FENCED BURN AREA

PRODUCTION BLDG  
SITE A

BURN PIT

PONDS

SCALE 2.22" = 1 MILE